IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121.

1. (currently amended) A method for producing an image from image data comprising:

accessing stored image data from a memory;
determining a pixel sampling rate for the image data;
comparing the pixel sampling rate to a desired sampling rate;
determining a shrink parameter based upon the comparison; and
processing the image data, including shrinking an input image based upon the shrink

2. (currently amended) The method of claim 1, wherein the desired sampling rate [[in]] is a Nyquist rate of sampling for the image.

parameter.

- 3. (original) The method of claim 1, wherein the desired sampling rate is determined based at least on a point-spread function of the imaging system, or the frequency content of the image data.
- 4. (original) The method of claim 1, wherein the pixel sampling rate is determined based upon a display field of view and a size of pixels in the field of view.
- 5. (original) The method of claim 1, wherein the shrink parameter is a ratio of the pixel sampling rate to the desired sampling rate when a redundancy metric is below a predetermined threshold.

- 6. (original) The method of claim 5, wherein the redundancy metric is the ratio of the pixel sampling rate to the desired sampling rate.
 - 7. (original) The method of claim 6, wherein the threshold is unity.
- 8. (currently amended) A method for producing an image from image data comprising:

accessing stored image data from a memory;

determining a desired sampling rate for the image data;

determining a pixel sampling rate for the image data;

comparing the pixel sampling rate to the desired sampling rate to determine a redundancy metric; and

processing the image data based upon the redundancy metric.

- 9. (currently amended) The method of claim 8, wherein the image data is processed by shrinking [[an]] the image defined by the data by a shrink parameter based upon the redundancy metric.
- 10. (currently amended) The method of claim 9, wherein the shrink parameter is a ratio of the pixel sampling rate to the desired sampling rate when [[a]] the redundancy metric is below a predetermined threshold.
- 11. (original) The method of claim 8, wherein the image data is processed by resampling the image data.
- 12. (original) The method of claim 11, wherein the image data is resampled to match the desired sampling rate.

- 13. (currently amended) The method of claim 8, wherein the desired sampling rate [[in]] is a Nyquist rate of sampling for the image.
- 14. (original) The method of claim 8, wherein the desired sampling rate is determined based at least on a point-spread function of the imaging system, or the frequency content of the image data.
- 15. (original) The method of claim 8, wherein the pixel sampling rate is determined based upon a display field of view and a size of pixels in the field of view.
- 16. (currently amended) [[The]] \underline{A} system for processing image data, the system comprising:

a memory circuit for storing image data; and

a processing circuit for accessing the image data from the memory circuit, determining a desired sampling rate for the image data, determining a pixel sampling rate for the image data, comparing the pixel sampling rate to the desired sampling rate to determine a redundancy metric, and processing the image data based upon the redundancy metric.

- 17. (original) The system of claim 16, wherein the processing circuit is configured to shrink an image defined by the data by a shrink parameter based upon the redundancy metric.
- 18. (currently amended) The system of claim 17, wherein the shrink parameter is a ratio of the pixel sampling rate to the desired sampling rate when [[a]] the redundancy metric is below a predetermined threshold.
- 19. (original) The system of claim 16, wherein the processing circuit is configured to process the image data by resampling the image data.

- 20. (original) The system of claim 19, wherein the image data is resampled to match the desired sampling rate.
- 21. (original) The system of claim 16, further comprising a data acquisition system.
- 22. (original) The system of claim 21, wherein the data acquisition system is selected from a group consisting of a CT system, an MRI system, an ultrasound system, an X-ray system, a tomosynthesis system, and a PET system.
- 23. (currently amended) A system for producing an image from image data comprising:

means for accessing stored image data from a memory;

means for determining a pixel sampling rate for the image data;

means for comparing the pixel sampling rate to a desired sampling rate;

means for determining a shrink parameter based upon the comparison; and

means for processing the image data, including shrinking an input image based upon
the shrink parameter.

24. (currently amended) A system for producing an image from image data comprising:

means for accessing stored image data from a memory;

means for determining a desired sampling rate for the image data;

means for determining a pixel sampling rate for the image data;

means for comparing the pixel sampling rate to the desired sampling rate to determine a redundancy metric; and

means for processing the image data based upon the redundancy metric.

25. (currently amended) A computer program computer readable medium storing a computer program for producing an image from image data comprising:

at least one computer readable medium; and

code stored on the at least one computer readable medium encoding routines for accessing stored image data from a memory, determining a pixel sampling rate for the image data, comparing the pixel sampling rate to a desired sampling rate, determining a shrink parameter based upon the comparison, and processing the image data, including shrinking an input image based upon the shrink parameter.

26. (currently amended) A computer program computer readable medium storing a computer program for producing an image from image data comprising:

at least one computer readable medium; and

code stored on the at least one computer readable medium encoding routines for accessing stored image data from a memory, determining a desired sampling rate for the image data, determining a pixel sampling rate for the image data, comparing the pixel sampling rate to the desired sampling rate to determine a redundancy metric, and processing the image data based upon the redundancy metric.